



11/30/82

DATE: November 30, 1982

TO: Land Division File

FROM: Gerald E. Steele, DLPC/FOS-Central Region *ges*

SUBJECT: LPC #18302013 - VERMILION COUNTY - DANVILLE/DANVILLE PLATING

US EPA RECORDS CENTER REGION 5



460296

The continuing clean-up operations at the Danville Plating facility conducted on November 30, 1982, were observed by this author acting as State on-scene coordinator. Mr. Bill Simes, USEPA on-scene coordinator, was also present on this date. Mr. Simes was supported by two TAT members from E & E.

The solidification set up was further refined by addition of a more stable base for the cement mixer. A scaffolding replaced the pickup truck used as the employee platform. Outdoor lights were installed. Results from Petrochem's lab revealed that the acid wastes could not go to Chem-Clear as hoped. The Nitric Acid content prevented this. The Envirote treatment plant in Harvey, Illinois, was contacted. They stated that it might be possible to take even the basic cyanide containing wastes. A test would have to be run at Envirote's lab to determine treatment suitability, which is their normal requirement. They reluctantly agreed to accept the acids based on Petrochem's analysis, and would send a tanker truck down the following day. A composite sample of the remaining basic wastes was to be constructed by Petrochem, and flown from Kentucky to Harvey that night. Due to the possible enormous cost savings, Mr. Simes instructed the contractor to concentrate on clean-up work instead of solidification until there was a determination made by Envirote. It was felt that no time would be lost due to this course of action.

Major activities at the site involved removing sludge from the empty vats, and decontaminating them. Wood was also decontaminated. These materials were removed to the southwest part of the property. Floor sweepings were collected and drummed. Hydrogen cyanide levels were monitored both inside and outside of the building by this author. None was detected outside at the downwind property line (a southwest wind was present). Hydrogen cyanide levels inside the building did not exceed 1 ppm. Filled drums were placed on a concrete pad south of the building. The vats were observed to have several layers of scale on them. There was concern that these vats could not be complete decontaminated. It was determined to run an E.P. Toxicity test on a composite sample of this scale. If the levels showed the scale to be toxic, they would have to be disposed of with the empty drums.

LPC #18302013 - Vermilion County
Danville/Danville Plating

Mr. Bob Vanetta, past operator of Danville Plating, came out to the site in the afternoon. I asked him if he knew what was stored in the barrels. He stated they were plating solutions. He said they came from a plating firm that went out of business about 20 years ago. His partner at the time agreed to haul the material away if he could have it. Mr. Vanetta said the drums had basically been forgotten, and had been setting there for 20 years.

Mr. Bill Simes expected the clean-up to last the rest of the week. The Emergency Response Unit would be assuming the role of on-scene coordinator for the State for the remainder of the clean-up.

GES/cp

cc: ✓LPC/FOS, Central Region
Emergency Response Unit
B. Simes/USEPA-Region V

DANVILLE PLATING COMPANY

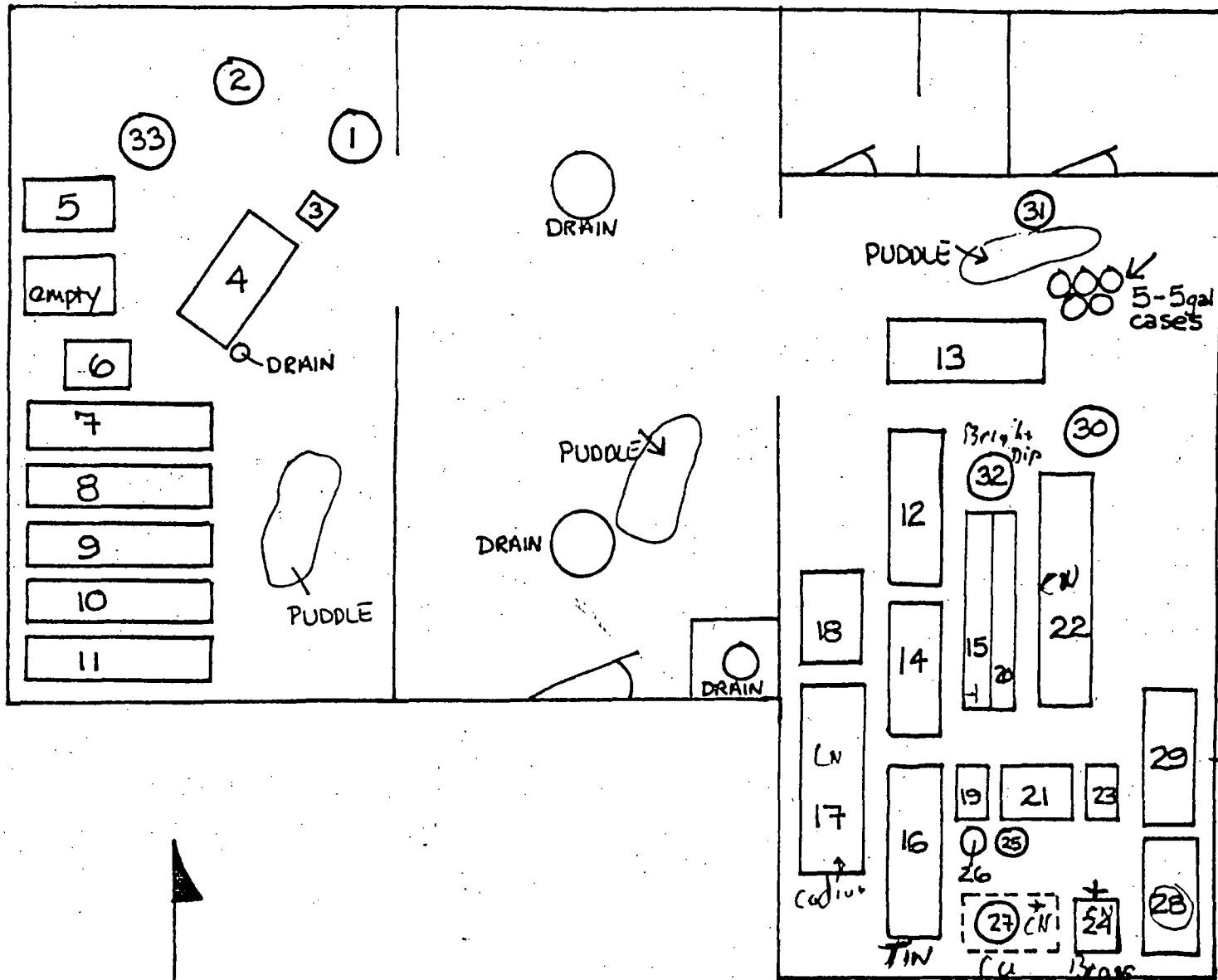
DANVILLE, ILLINOIS

(CONT.)

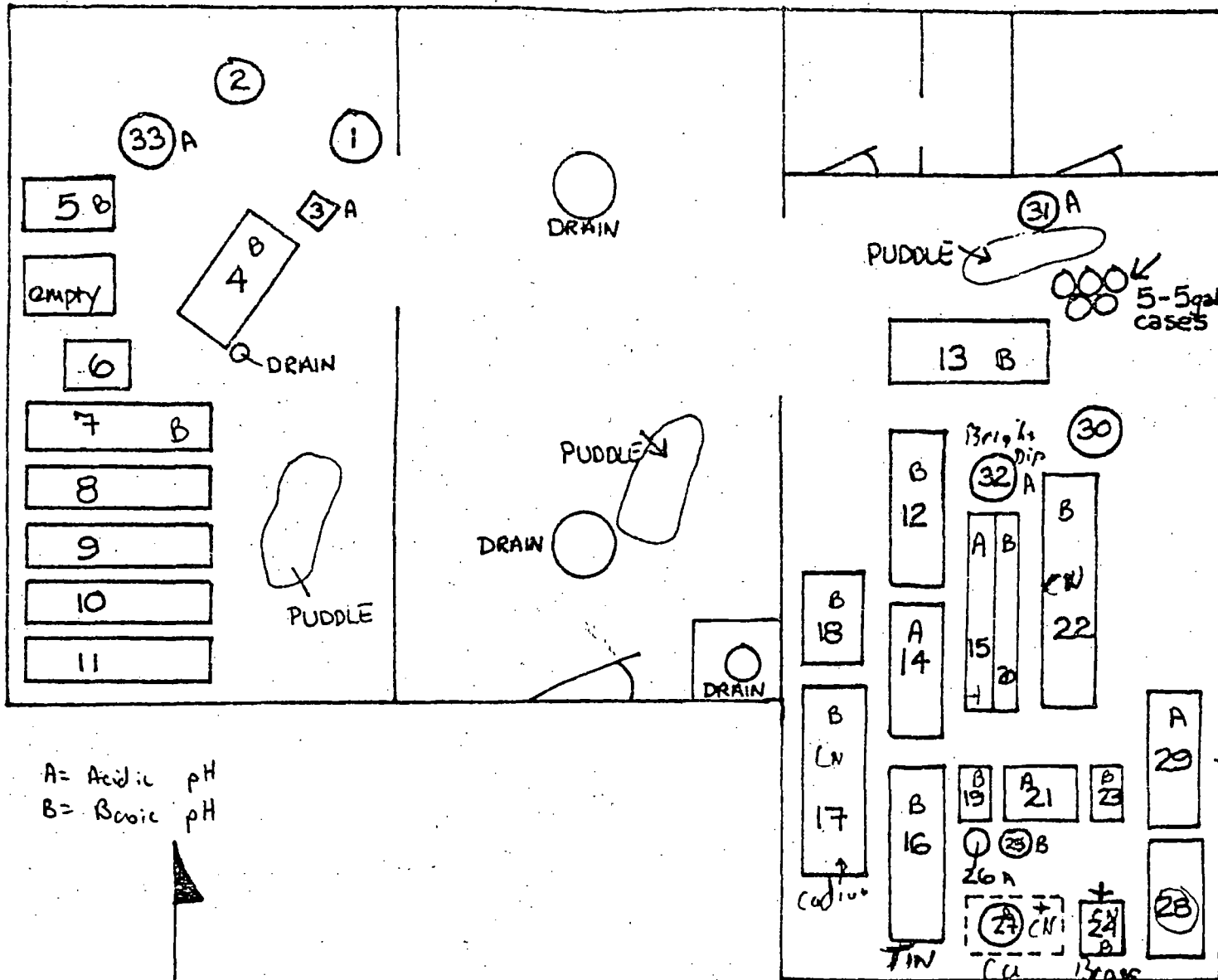
<u>Tank Number</u>	<u>Description</u>	<u>pH (pH Meter)</u>	<u>Cyanide (hydrocyanic acid draeger tubes)</u>
22	Open Vat	0	
23	Open vat	1	
24	Open vat	4	
25	Open bucket	3	
26	Open plastic pail 4" liquid	0	
27	Open drum	4	
28	Open vat containing grease	-	
29	Open vat	7	
30	Open drum	5.5	
31	Small open drum	3.5	
32	Open drum	0	
33	Open vat	0.5	
5-5 gallon cases	Marked nickel brightener (6% by weight dioxane)		
Drain near #4		-	2 ppm
Puddle near #8		6.5	5 ppm
Puddle near #31		9.5	
Puddle near door		7.5	
Outdoor drum		1	ND

DANVILLE PLATING COMPANY
DANVILLE, ILLINOIS

<u>Tank Number</u>	<u>Description</u>	<u>pH (pH Meter)</u>	<u>Cyanide (hydrocyanic acid draeger tubes)</u>
1	Barrel labelled zinc cyanide		
2	Closed can		
3	Open plastic jug	0	
4	Open vat	9	
5	Open vat	5	
6	Open vat	4	
7	Open vat	7.5	
8	Open vat (no liquid)	-	
9	Open vat (no liquid)	-	
10	Open vat (no liquid)	-	
11	Open vat (no liquid)	-	
12	Open vat (full)	7, 10 after stirring	
13	Open vat	0	
14	Open vat (full)	7	
15	Open vat	1	
16	Open vat (full)	7.5, 11 after stirring	Tin solution
17	Open vat	8	
18	Open vat	6.5	
19	Open vat	2.5	
20	Open vat	0	
21	Open vat	0	



Danville Plating Company
 307 E. Fairchild
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STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532-0357
ADM 39

0302013 Lpc @ Vermilion Co.

Donville / Donville Plating

Petrochem Sample Analysis

Analyst by G.E. Stach

Date 11-30-82

Prod Vat #	pH	Base vat #	pH	Drum #	pH (lab)
3	Ø			1	9.6
14	2.56	4	11.18	2	11.05
15	.3	5	12.69	3	9.31
21	4.96	12	10.58	4	9.28
26	1.78	16	12.38	5	11.15
29	.3	17	11.62	6	12.68
31	3.5	18	11.85	7	13.24
32	.6	22	13.11	8	12.45
33	Ø	23	9.96	9	13.22
		24	9.86	10	13.17
		25	9.55	11	13.25
		27	9.86	12	13.23
		7	10.06	13	13.02
		19	8.45	14	12.7
		13	7.37	15	11.0
		20	7.45	16	12.44
				17	11.04
				18	13.23
				19	12.15
				20	10.39
				21	8.55

Composite sample
pH 9.43

Arsenic = .85 ppm
Barium = 7.43 ppm
Cadmium = 264.67 ppm *
Chromium = 18,390 ppm *
Copper = 685 ppm
Nickel = 40,593 ppm
Mercury = .067 ppm
Lead = 142.95 ppm *
Zinc = 664 ppm
Selenium = .046 ppm
Silver = 2.69

Composite sample

pH 12.57

CN = 3.35%
Arsenic = .029 ppm
Barium = 510 ppm
Cadmium = 2220 ppm *
Chromium = 90.45 ppm *
Copper = 6658 ppm
Nickel = 283.7 ppm
Mercury = <.01 ppm
Lead = 11.1 ppm *
Zinc = 12,360 ppm
Selenium = .026 ppm
Silver = 1.65 ppm

Samples

8 }
9 } Solids
10 }
11 }

* = Exceeds E.P. Toxicity Stds.